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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,431	09/28/2005	Christopher Davies	UDL-123	7625
56822 7550 10/28/2008 GORDON & JACOBSON, P.C. GOLDING RIDGE ROAD			EXAMINER	
			DEO, DUY VU NGUYEN	
SUITE 407 STAMFORD.	CT 06902		ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/522,431 DAVIES, CHRISTOPHER Office Action Summary Examiner Art Unit Duv-Vu N. Deo 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 May 2006. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims Claim(s) is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 9/26/05

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 2, 5, 12, 13, 15, 16, 18-24, 26, drawn to a method.

Group II, claim(s) 27-34, drawn to an apparatus.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: group I refers to a method while group II refers to an apparatus wherein group II can be used to do another process that doesn't require using the particulate supply arrangement.
- 3. During a telephone conversation with Jay Sbrollini on Oct 23, 2008 a provisional election was made with traverse to prosecute the invention of method, claims 1, 2, 5, 12, 13, 15, 16, 18-24. Affirmation of this election must be made by applicant in replying to this Office action. Claims 27-34 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- Claims 1, 2, 5, 6, 12, 16, 19, 23, 26 are rejected under 35 U.S.C. 102(a) as being anticipated by Lawton et al. (US 6,347,976).

Lawton teaches a method of removing paint and/or coating from automobiles or aircraft (col. 1, line 24-26) comprising directing a supply of particulate or particle stream toward a target zone of target material on the substrate (col. 2, line 55-60; col. 3, line 34-42) and directing a radiant energy source such as infrared to UV to pyrolize the coating (col. 3, line 12-16; col. 5, line 20-25; col. 7, line 20-25). This would read on claimed the interaction between the radiant optical energy and the particulate material is thermal interaction, or sublimation interaction evolving a gas having a blast effect at the target zone.

Referring to claim 12, the particulate includes CO2 pellets (claimed solid state at ambient temperature) (col. 3, lines 30, 31).

Referring to claim 19, the particulate or particle stream must be delivered entrained in a transport gas in order to direct the stream at the substrate through a nozzle (col. 3, lines 37-40).

Referring to claim 23, the spectrum of the radiant optical energy would have to be varied in a controlled manner.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13, 15, 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable
over I awton

Referring to claims 13 and 22, even though Lawton is silent about the radiant optical energy is delivered as one of a pulse or a series of pulses and the energy density at the target zone is in the range between 5 J/cm3 and 150 J/cm3. However it is obvious to one skilled in the art to use the optical energy in anyway and determine the energy density through routine experimentation as long as it would provide enough energy for the pyrolysis process.

Referring to claim 15, directing the particulate material across the target zone in a direction transverse to the direction of the radiant optical energy would be obvious to one skilled in the art because it would ensure the particulate material and the radiant optical energy to cover the target area without one block the other.

Referring to claim 20, using pressurized air as the transport gas is obvious to deliver a solid material through a nozzle.

Referring to claim 21, using any apparatus including claimed flashlamp delivery system to deliver the radiant optical energy would be obvious as long as it can deliver the light energy to the substrate.

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 Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lawton as applied to claim 1 above, and further in view of Rubey, III et al. (US 5,588,901).

Even though Lawton doesn't describe the particulate material comprises of bicarbonate of soda. However, using such particulate is well known to one skilled in the art for a cleaning process at the time of the invention was made as shown here by Rubey (col. 1, line 41-50). One skilled in the art would find it obvious to use such particulate in light of Rubey because he teaches that it is not toxic and can clean softer substrate including Al or plastic component (col. 1, line 42-50).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy-Vu N. Deo whose telephone number is 571-272-1462. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Duy-Vu N Deo/ Primary Examiner, Art Unit 1792

10/26/08